

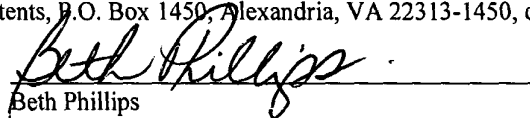
ATTORNEY'S DOCKET NO: H063070003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James F. Rieke and Timothy J. Rittorf
Serial No: 10/619,280
Conf. No: Not yet assigned
Filed: July 14, 2003 (07.14.2003)
For: SYSTEM AND METHOD OF PROCESSING MIXED-PHASE STREAMS
Examiner: Not yet assigned
Art Unit: Not yet assigned

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 13th day of August, 2003.


Beth Phillips

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants requests consideration of this Information Disclosure Statement.

PART I. Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case. No fee or certification is required.

PART II. Information Cited

Applicants hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

PART III. Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The Examiner sign the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application; and
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, Applicants makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, Applicants makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

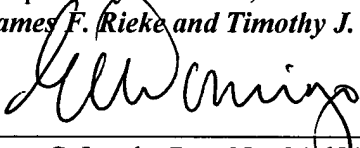
By submitting this Information Disclosure Statement, Applicants makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by Applicants, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

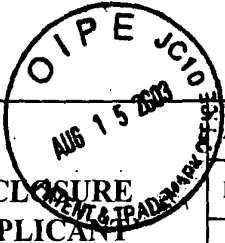
An early and favorable action is respectfully requested.

Respectfully submitted,
James F. Rieke and Timothy J. Rittorf, Applicants

By: _____


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Docket No. H063070003
Dated: August 13, 2003
xn dd



FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 10/619,280		ATTY. DOCKET No.: H063070003	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: July 14, 2003			
				APPLICANT: James F. Rieke and Timothy J. Rittorf			
				GROUP ART UNIT: Not yet assigned		EXAMINER: Not yet assigned	
Sheet	1	of	2				

U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1	5,242,016		Voss et al.	09-07-1993
	A2	5,284,203		Dauvargne	02-08-1994
	A3	5,299,635		Abraham	04-05-1994
	A4	5,307,867		Yasuda et al.	05-03-1994
	A5	5,318,111		Young et al.	06-07-1994
	A6	5,323,849		Korczynski, Jr. et al.	06-28-1994
	A7	5,323,850		Roberts	06-28-1994
	A8	5,323,851		Abraham	06-28-1994
	A9	5,329,995		Dey et al.	07-19-1994
	A10	5,341,872		Mercurio	08-30-1994
	A11	5,348,083		Hosoya et al.	09-20-1994

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
	C1	ARTHUR E. BERGLES, "Augmentation of Heat Transfer," 2.5 Single-Phase Convective Heat Transfer, 2.5.11-1 – 2.5.11-12, 1983 Hemisphere Publishing Corporation.		
	C2	ARTHUR E. BERGLES, "Augmentation of Condensation," 2.6 Condensation, 2.6.6-1 – 2.7.9-5, 1983 Hemisphere Publishing Corporation.		
	C3	W.J. MARNER et al., "Augmentation of Highly Viscous Laminar Heat Transfer Inside Tubes with Constant Wall Temperature," <i>Experimental Thermal and Fluid Science</i> 1989; 2:252-267; 1989 by Elsevier Science Publishing Co., Inc., New York, NY.		
	C4	R.S. VAN ROOYAN et al., "Laminar Flow Heat Transfer in Internally Finned Tubes With Twisted-Tape Inserts," p. 577-581, University of Stellenbosch, Stellenbosch, South Africa, 1978.		
	C5	D.R. OLIVER et al., "Heat Transfer Enhancement in Round Tubes Using Wire Matrix Turbulators: Newtonian and Non-Newtonian Liquids," <i>Chem. Eng. Res. Des.</i> , Vol. 66, November 1988, pp. 555-565.		
	C6	"Fine-Fin" Product Literature, publication date unknown.		
	C7	"Heat Exchanger Tubes with Increased Heat Transfer," VDM Tube Division 1978.		

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 10/619,280		ATTY. DOCKET No.: H063070003	
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		GROUP ART UNIT: Not yet assigned		EXAMINER: Not yet assigned	
Sheet	2	of	2		

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C8	P.J. MARTO et al., "An Experimental Comparison of Enhanced Heat Transfer Condenser Tubing," pp. 1-9, Department of Mechanical Engineering, Naval Postgraduate School, Monterey, California, publication date unknown	
	C9	M.H. MEHTA et al., "Heat Transfer and Frictional Characteristics of Spirally Enhanced Tubes for Horizontal Condensers," pp. 11-21, Gujarat State Fertilizers Co. Ltd. Baroda, India; Department of Chemical Engineering, Indian Institute of Technology, Powai, Bombay, India., publication date unknown	
	C10	T.C. CARNAVOS, "Heat Transfer Performance of Internally Finned Tubes in Turbulent Flow," pp. 61-67, Noranda Metal Industries, Inc., Forge-Fin Division, Newtown, Connecticut, publication date unknown	
	C11	R.L. WEBB et al., "A Parametric Analysis of the Performance of Internally Finned Tubes for Heat Exchanger Application," Department of Mechanical Engineering, The Pennsylvania State University, University Park, Pennsylvania, pp.69-77, publication date unknown	
	C12	T.C. SCOTT et al., "Accurate, Simple Expressions for the Efficiency of Single and Composite Extended Surfaces," Mechanical and Aerospace Engineering, University of Virginia, Charlottesville, Virginia, pp. 79-85, publication date unknown	
	C13	H.M. SOLIMAN, "The Effect of Fin Material on Laminar Heat Transfer Characteristics of Internally Finned Tubes," Department of Mechanical Engineering, University of Manitoba, Winnipeg, Manitoba, Canada, pp. 95-102, publication date unknown	
	C14	R.K. GUPTA et al., "Heat Transfer and Friction Characteristics of Newtonian and Power-Law Type of Non-Newtonian Fluids in Smooth and Spirally Corrugated Tubes," Solar Energy Division, Jyoti Ltd., Baroda, India; Department of Chemical Engineering, Indian Institute of Technology, Bombay, India, pp. 103-113.	
	C15	A.E. BERGLES, "Chapter 3 -Techniques to Augment Heat Transfer," pp. 3-1 - 3-80, <i>Handbook of Heat Transfer Applications</i> , Second Edition, McGraw-Hill Book Company 1985.	
	C16	T.J. RABAS, "Selection of the Energy-Efficient Enhancement Geometry for Single-Phase Turbulent Flow Inside Tubes," 1989 National Heat Transfer Conference, HTD-Vol. 108, Heat Transfer Equipment Fundamentals, Design, Applications and Operating Problems, 1989, pp. 193-204.	
	C17	R. ANTONELLI et al., "Design and Application Considerations for Heat Exchangers with Enhanced Boiling Surfaces," <i>Evaporation and Condensation</i> , 1983, pp. 175-191.	
	C18	V.H. MORCOS, "Performance of Shell-And-Dimpled-Tube Heat Exchangers for Waste Heat Recovery," <i>Heat Recovery Systems & CHP</i> , Vol. 8, No. 4, pp. 299-308, 1988, Pergamon Press plc, Great Britain.	
	C19	R. WILTZ, "Engineered Products and Good Design Combine to Improve HX Performance," reprinted from <i>Chemical Processing</i> September 1992	
	C20	S. YILMAZ et al., "Performance of Finned Tube Reboilers in Hydrocarbon Service," The American Society of Mechanical Engineers, New York, NY, publication date unknown	
	C21	J.A. MOORE, "Fintubes Foil Fouling for Scaling Services," pp. 8-10, <i>Chemical Processing</i> August 1974	

EXAMINER	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No., filed, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).